All About NXDN

In West Central Florida

NXDN

SUMTER/VILLAGES
442.0625

PASCO
442.6500

BOYETTE
442.0875

SEMINOLE
442.1500

BARTOW
442.1375

VERNA
444.3125

LAKE PLACID
442.1125

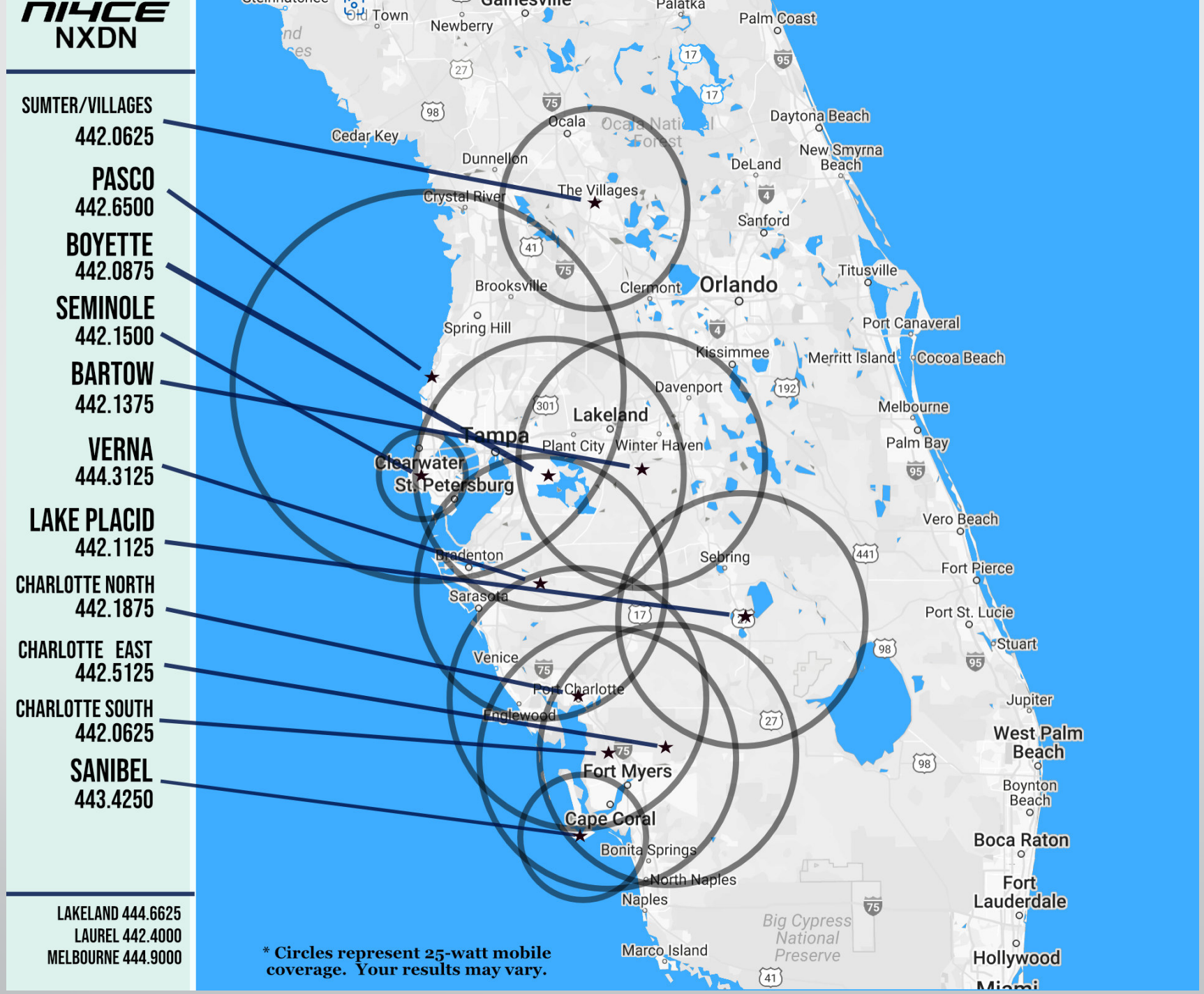
CHARLOTTE NORTH
442.1875

CHARLOTTE EAST
442.5125

CHARLOTTE SOUTH
442.0625

SANIBEL
443.4250

LAKELAND 444.6625
LAUREL 442.4000
MELBOURNE 444.9000



* Circles represent 25-watt mobile coverage. Your results may vary.

WHAT IS NXDN?

- Ultra Narrowband Digital Mode - 6.25 KHz
- FDMA Modulation for Clear Audio and Data Streaming
- Supports Multiple Talkgroups for Optimal Channel Utilization

Superior Weak Signal Performance

- Decodes digital stream down to -116 dBm
- Decodes clear, easy to understand audio when Analog is noise
- Optimal for use INSIDE well constructed structures
- Works equally well in repeated and simplex modes

NXDN RADIOS

- FIRST Generation since 2005
- No Over-The-Air Alias
- No Talkgroup Scanning with SELective Squelch
- Limited Text Messaging

NXDN RADIOS

- SECOND Generation Radios Since 2015
- Supports Over-The-Air-Alias (Transmit your FCC Callsign)
- Supports Talkgroup Scanning in SELective Mode (RX Group)
- 100 character Text Messaging

ICOM vs JVC-KENWOOD

- CONVENTIONAL VOICE COMPATIBILITY
- PROPRIETARY TEXT MESSAGING - No Bridge to Translate one format to the other
- OTHER PROPRIETARY FEATURES

WHERE CAN I PURCHASE A NXDN RADIO?

- NXDN is a Part 90 Land Mobile Radio Product
- ICOM and JVC-Kenwood LMR Dealers are primary suppliers
- The Internet
- Traditional Amateur Radio Dealers???

Amateur vs LMR Hardware

AMATEUR

- Amateur Frequencies ONLY
- Often 430-450 MHz (not the entire band)
- Technical Specs not as refined

LMR

- Includes ENTIRE Amateur Radio Band
- Includes FRS-GMRS Frequencies
- Includes Part 90 Band (for EmComm)
- Better Technical Specifications means Better Performance
- Not prohibitively expensive

NXDN Radios

- Low Split Portables and Mobiles (400-470 MHz)
- ICOM F6130D is an ALL BAND Mobile (400-512 MHz)
- WBFM Analog Option Available on some radios
- All NXDN Radios Can Operate In Analog Mode
- After market Antennas Offer Little to No Advantage
- Look at Wide-Band Antennas (400-500 MHz)
- Multi-polarized and Circular Polarized (CP) offer BEST Performance

OPERATING TIPS

- Announce Yourself with Callsign AND Talkgroup
- Use TG 1200 as a Calling TG
- Use TG-1 when you are using a Single Repeater
- BUSY LOCKOUT

The *ni4ce* NXDN Network is
Radio Over IP
not
Voice Over IP

WEST CENTRAL FLORIDA TALKGROUPS

- 1 – **LOCAL** to each Repeater
- 1200 – FLORIDA
- 1201 – West Central FL
- 1215 – SW Florida (S. Sarasota, DeSoto, Charlotte & Lee Co)
- 1230 to 1233 – TACTICAL On Demand Talkgroups
- 1299 – NWS Ruskin SKYWARN

FUTURE *ni4ce* IMPROVEMENTS

- VOTE SCAN (Channel Steering based on RSSI)
- A more ROBUST Infrastructure
- GPS Signaling Ported to APRS

NXDN CONTACTS

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